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## real-time information collection super allocating system and method for vehicle



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A real-time information collection supervising and allocating system and method for the identification, fare etc information on the contact and/or contactless IC card will be read and written by the IC card reader. Signal converter will convert it signal. Together with (or without) the video and/or audio signal caught by camera at the vehicle, plus the location information collected by GPS system, via information transmission device, being sent to computer(s) in the information center through telecom network. The information center will transmit audio, video and/or text to allocate the vehicle. Who, where, when, what etc information concerning vehicle is collected. The audio and/or video information can be recorded and tracked in information center or through internet or intranet. It will bring good effect on transportation theft and anti-terrorism, criminal hunting, battling etc fields. (SCROLL BELOW THE PATENT...)

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Inventor: [Bo LANG](#)

Class: 701213000 (USPTO), (Intl Class)

**Brief Patent Description** - [Full Patent Description](#) - [Patent Application Claims](#)

## TECHNICAL FIELD

[0001] This invention relates to a real-time information collection supervising method for vehicle.

## BACKGROUND ART

[0002] According to the prior arts, vehicle is equipped with GPS technology. But GPS only solves the problem "where" the vehicle is located. But it does not solve what etc problems to provide sufficient information for an efficient vehicle supervising and allocating.

[0003] A system has been proposed wherein navigation data is updated with data including turns, e.g., as disclosed in U.S. Pat. No. 6,633,814. However, this system does not provide more precise positioning means.

[0004] Nowadays in many cities, IC cards and card readers are being applied on public transportation equipment. Some are for the fare charging purpose. Some are for the authorization of the riders. But the information of the cards and the card-holder is not in full usage, i.e., the card being read once means one person is on board of the vehicle. The rest may be deduced by analogy. The information on the number of passengers can be collected and sent to the traffic control center for a better purpose.

## SUMMARY OF THE INVENTION

[0005] It is therefore an object of this invention to provide a real-time information collection and allocating system and method for vehicle to equip the information center with a device on vehicle in order to supervise and allocate the vehicle.

[0006] The present invention in one embodiment provides a real-time information collection and allocating system, comprising a wireless telecom network, wherein the system includes a contact and/or contactless IC card and card reader & writer on vehicle. It can also include a signal converter, information and data reception and transmission device, computer server and information center. The said signal converter is used to convert the information read by IC card into a digital or non-digital signal. The said information and data reception and transmission device is used to transmit the above-mentioned digital or non-digital signals to the computer server and information center via wireless telecom network and being recorded into memory device.

[0007] In a further embodiment of the present invention, the system also includes a video and/or audio equipment to collect video and/or audio signals on the spot inside of the vehicle. The signals will be transmitted to the computer servers in the information center via a signal converter, information and data reception and transmission device through wireless telecom network and being recorded into memory device.

[0008] The information center also has allocating information transmission device to transmit video and/or text instructions to drivers through wireless telecom network to a vehicle.

[0009] The present invention also includes a method comprising the steps of transmitting information via a wireless telecom network, wherein identification and fare etc information inside the vehicle and contactless IC card in the vehicle end, are read and written by IC card reader & writer.

above-mentioned information is converted by signal converter into digital or n information and data reception and transmission device will transmit the above digital signals to the computer servers in the information center via wireless te recorded into memory device.

[0010] In a further embodiment of the present invention, the method comprising video and/or audio information by CCTV monitoring equipment and then trans servers in the information center via the information & data reception & trans wireless telecom network and being recorded into memory device.

[0011] The information center will transmit audio, video and/or text instructio the vehicle through 3G or other wireless telecom network.

[0012] As a result, the information center can thus conveniently and accurately what etc information on the vehicle besides of the "where" information. It's m allocate the vehicle. It will bring good effect on transportation resource deploy terrorism, criminal hunting, battling etc fields.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0013] FIG. 1 Shows the first embodiment of the present invention.

[0014] FIG. 2 Shows the second embodiment of the present invention.

[0015] FIG. 3 Shows the third embodiment of the present invention.

[0016] FIG. 4 Shows the forth embodiment of the present invention.

[0017] FIG. 5 Shows the fifth embodiment of the present invention.

[0018] FIG. 6 Shows the sixth embodiment of the present invention.

[0019] FIG. 7 Shows the seventh embodiment of the present invention.

[0020] FIG. 8 Shows the eighth embodiment of the present invention.


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**Full patent description for real-time information collection supervising ar method for vehicle**

**Brief Patent Description - Full Patent Description - Patent Application Claim**  
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